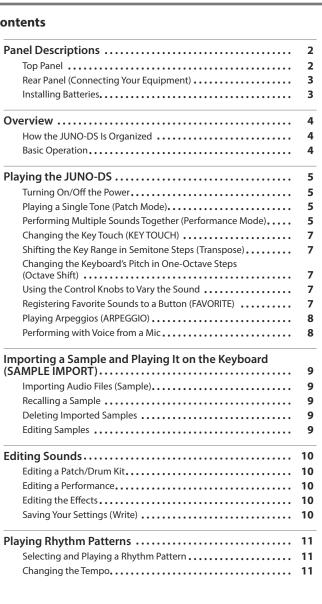
# **Roland**



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Owner's Manual (this document
-------------------------------

Read this first. It explains the basic things you need to know in order to use the JUNO-DS.

- PDF manual (download from the Web)
  - Parameter Guide (English) This explains all parameters of the JUNO-DS.
  - MIDI Implementation (English)

This is detailed information about MIDI messages.



- 1. Enter the following URL in your computer. http://www.roland.com/manuals/ ▼
- 2. Choose "JUNO-DS" as the product name.

Before using this unit, carefully read "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (leaflet "USING THE UNIT SAFELY" and Owner's Manual (p. 20)). After reading, keep the document(s) including those sections where it will be available for immediate reference. © 2018 Roland Corporation

日本語

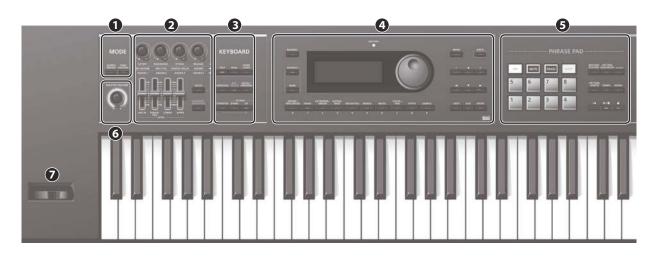
Deutsch

Français

Italiano

# Panel Descriptions

# Top Panel

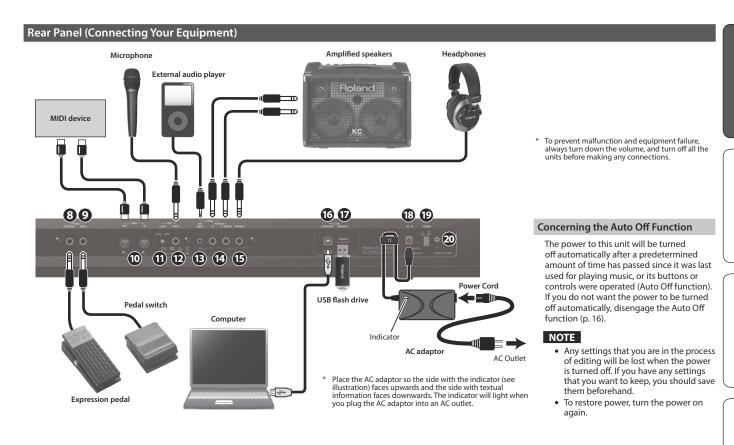


Controller Explanation		
1 MODE		
[SAMPLE IMPORT] button	Used to import an audio file (sample) into the JUNO-DS.	p. 9
[DAW CONTROL] button	Used to control DAW software from the JUNO-DS. For details, refer to "Parameter Guide (English)" (PDF).	

You can move to the EDIT MENU screen by pressing the [SAMPLE IMPORT] button and [DAW CONTROL] button simultaneously.

2							
Control knobs	Control knobs Control the parameters that you've selected by the						
Control Knobs	[SELECT] button.						
[SELECT] button	Selects the group of parameters that is controlled by the Control knobs.						
[MIC IN] LEVEL slider	Adjusts the volume of the input from MIC INPUT jack.						
[PHRASE PAD] LEVEL slider	PAD] LEVEL slider Adjusts the volume of the rhythm pattern / audio player.						
[LOWER] LEVEL slider	Split: Adjusts the volume of the lower part. Dual: Adjusts the volume of part 2.						
[UPPER] LEVEL slider	Split: Adjusts the volume of the upper part. Dual: Adjusts the volume of part 1.	p. 6					
[VOCODER/AUTO PITCH] button	Accesses settings for the Vocoder function and Auto Pitch function.	p. 8					
3 KEYBOARD							
[SPLIT] button	Turns the split function on/off.						
[DUAL] button	Turns the dual function on/off.	p.6					
[SUPER LAYER] button	Turns the super layer function on/off.						
[ARPEGGIO] button	Turns the arpeggiator on/off.	p. 8					
[KEY TOUCH] button	RPEGGIO] button         Turns the arpeggiator on/off.           Used to change the touch response of the keyboard.         Depending on the KEY TOUCH setting, the [KEY TOUCH] button is lit or unlit.						
[PATCH/PERFORM] button	When this button is on (lit), the JUNO-DS is in Performance mode. When this button is off (unlit), the JUNO-DS is in Patch mode.	p. 5					
[TRANSPOSE] button	Hold down this button and use the OCTAVE [DOWN] [UP] buttons to raise or lower the pitch range in semitone steps.						
OCTAVE [DOWN] [UP] buttons	Raise or lower the pitch range in steps of an octave.	p. 7					
4							
[NUMERIC] button	When this button is on (lit), you can use the [0]–[9] buttons to enter numeric values.	p. 4					
[FAVORITE] button	Turns the Favorite function on/off.						
[BANK] button	When this button is on (lit), you can use the [0]–[9] buttons to select Favorite banks.	p. 7					
BATTERY indicator	The indication changes depending on the remaining battery amount.	p. 3					
Display	Shows various information depending on operation.						
Value dial	Changes a value. If you hold down the [SHIFT] button and turn the dial, the value changes more greatly.	p. 4					
[DRUMS/PERCUSSION]– [SAMPLE] (Category) buttons ([0]–[9] buttons)	Select categories (types) of sound (such as patches or drum kits). You can also use the value dial to select other sounds within the same category. * When the [NUMERIC] button is on (lit), these buttons operate as [0]–[9] buttons to enter numeric values.	p. 5					
[MENU] button Displays a menu screen.							
	Saves the modified settings in internal memory.	p. 10					

Controller	Explanation			
[-] [+] buttons	Changes a value. * If you press one of these buttons while holding down the other, the value changes more rapidly. If you press one of these buttons while holding down the [SHIFT] button, the value changes more greatly.			
[▲] [▼] [◀] [►] buttons	Move the cursor position up/down/left/right.			
[SHIFT] button	Accesses the corresponding edit screen when pressed together with another button.			
[EXIT] button	Exits a screen or cancels an operation.	p. 4		
[ENTER] button	Used to execute an operation.	p. 4		
<b>5</b> PHRASE PAD				
[TAP] button	Sets the tempo to the interval at which you press this button during pattern playback.	p. 11 p. 13		
[MUTE] button	When using the pattern sequencer, mutes the specified track.	p. 13		
[ERASE] button	When using the pattern sequencer, erases the recorded pattern or a portion of the pattern.	p. 14		
[LOOP] button	When using the pattern sequencer, turns loop playback/ recording on/off.			
Pads [1]–[8]	Play back phrases (rhythm patterns / patterns / samples) that are assigned to the pads.			
[RHYTHM PATTERN] button	Press this button to use rhythm patterns.			
[PATTERN SEQUENCER] button	Press this button to use the pattern sequencer.	p. 13		
[AUDIO] button	Press this button to use the "audio player" which plays back audio files from a USB flash drive.			
[PATTERN LENGTH] button	Changes the number of measures in the pattern.			
[TEMPO] button	Adjusts the tempo.	p. 11		
[MIXER] button	When using the pattern sequencer, specifies settings such as level or pan for each track.			
[I⊲] button	Moves to the beginning of the pattern or audio file.	- 11		
[►/■] button	Starts/stops playback of the rhythm pattern, pattern, or audio file that is selected for the rhythm pattern function, the pattern sequencer, or the audio player.	p. 11 p. 12 p. 13		
[•] button	When using the pattern sequencer, press this button to record a pattern.	p. 13		
6				
[MASTER VOLUME] knob	Adjusts the volume that is output from the OUTPUT jacks and the PHONES jack.	p. 5		
7				
Pitch bend/Modulation lever	Varies the pitch or applies vibrato.			



Jack/	Controller	Explanation			
8	PEDAL CONTROL jack	You can connect an expression pedal (EV-5; sold separately) or pedal switch (DP series; sold separately) here and use them to control various parameters or functions. * Use only the specified expression pedal (EV- 5; sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.	p. 16		
9	PEDAL HOLD jack	You can connect a pedal switch (DP series; sold separately) and use it as a hold pedal.			
0	MIDI IN, OUT connectors	For connecting a MIDI device.			
0	MIC [LEVEL] knob	Adjusts the input level of the MIC INPUT jack.			
Ð	MIC INPUT jack	Connect your dynamic microphone here. This is an unbalanced 1/4" phone jack.	p. 8		
B	EXT INPUT jack	Connect your external audio player or audio device h	nere.		
1	OUTPUT R, L/MONO jacks	These output the audio signal in stereo to your amp or mixer. If you're outputting in mono, connect only the L/MONO jack.			
Ð	PHONES jack	Connect your headphones (sold separately) to this jack.			
6	USB COMPUTER port	Use a commercially available USB 2.0 cable to connect this unit to your computer. You can synchronize it with a DAW on your computer via US MIDI, and record the sound of the JUNO-DS into your DAW via USB audio.			
Ð	USB MEMORY port	Connect a USB flash drive (sold separately) here. You can use a USB flash drive to play audio files or to back up data. * Never insert or remove the USB flash drives while this unit is turned on. Doing so may corrupt the unit's data or the data on the USB flash drives. * Carefully insert the USB flash drives all the way in—until it is firmly in place.			
B DC IN jack		Connect the included AC adaptor here. * To prevent the inadvertent disruption of power to unit (should the plug be pulled out accidentally), avoid applying undue stress to the jack, anchor th cord using the cord hook, as shown in the illustral	and to e power		
Ð	[POWER] switch	This turns the power on/off.	p. 5		
20	Ground terminal	Refer to "Ground Terminal" (p. 20).			

# **Installing Batteries**

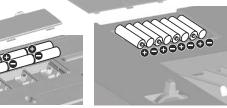
If eight commercially available AA nickel-metal hydride batteries are installed, you'll be able to play the JUNO-DS without connecting the AC adaptor.

#### 1. Remove the battery compartment cover.

61-key model, 76-key model	While pressing the tabs of the battery compartment cover on the bottom panel, remove the cover.
88-key model	Slide the top panel battery compartment cover, and detach the cover.

- When turning the unit over, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.
- 2. Insert the batteries into the battery compartment, taking care to observe the correct polarity.

61-key model, 76-key model



3. Securely close the battery compartment cover.

# NOTE

If you handle batteries improperly, you risk explosion and fluid leakage. Make sure that you carefully observe all of the items related to batteries that are listed in "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (leaflet "USING THE UNIT SAFELY" and Owner's manual (p. 20)).

# When to replace the batteries (BATTERY indicator)

When the batteries run down, the BATTERY indicator will light or blink.

- The BATTERY indicator will light when the batteries run low.
- If you continue using the JUNO-DS, the indicator will blink; please replace the batteries.

#### NOTE

- If you continue use even though the indicator is blinking, the display will
- indicate "Battery Low!" and further operation will be impossible. • The BATTERY indicator is only an approximation.

Deutsch

Español

Português

Nederlands

88-key model

# How the JUNO-DS Is Organized

#### **Controller section**

The performance information generated when you press/release a key or press a hold pedal are transmitted to the sound generator section. This section consists of a keyboard, pitch bend/modulation lever, the panel buttons and knobs, and pedals connected to the rear panel.

#### Sound Generator section

This section receives performance information sent from the controller section, and sounds a patch or performance accordingly.

#### Effects

MFX (Multi effects)	Provides 80 types of effect, such as distortion and flanger.
Chorus/Reverb	A chorus/reverb unit that can be used independently of the chorus/reverb effects of the MFX unit. Chorus can also be used as a delay.

MFX and chorus/reverb can have different settings for each patch and performance.

# Phrase Pad

These play the phra	ises that are assigned to pads [1]–[8].
Rhythm Pattern	The pads play dedicated rhythm patterns.
Pattern Sequencer	The pads record patterns of several measures, and play them back while you perform.
Audio Player	The pads play audio files from a LISB flash drive

#### Patch

A patch is a sound that you can perform. Each patch consists of up to four "tones," and you can create a wide variety of sounds by combining tones.

#### **Drum Kit**

A drum kit is a collection of percussion instrument sounds or sound effects. Each different key (note number) plays a different percussion instrument or sound effect.

#### Sample

These are sounds created by Sample Import (p. 9).

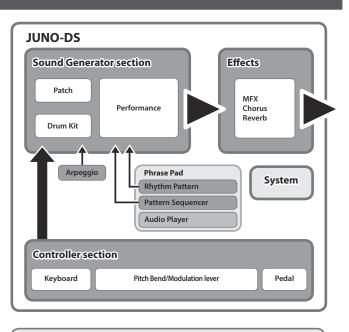
#### Performance

A performance lets you assign a different patch, drum kit, or sample to each of 16 parts, allowing you to use 16 different sounds simultaneously.

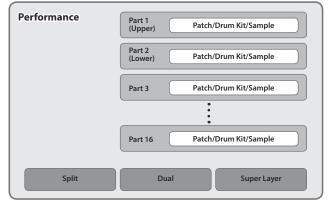
The following s	ettings are also saved as performance settings.
SPLIT	Use different sounds for the right and left hands
DUAL	Layer two sounds
SUPER LAYER	Layer a single sound to create a richer feeling

When you select Split or Dual, the patches of part 1 and part 2 are used.

"Patch mode" is when you select and play a single patch (or drum kit or sample). "Performance mode" is when you select and play a performance. When using SPLIT/DUAL/SUPER LAYER, you'll always be in Performance mode (the [PATCH/PERFORM] button is lit).







# **Basic Operation**

#### Move the cursor

To change a selection or parameter setting that's shown in the screen, use the [] [] [] b buttons to move the cursor to the value of the parameter that you want to change. If you hold down a cursor button, the cursor continues to move.

If you hold down the cursor button of a certain direction and then press the cursor button of the opposite direction, the cursor moves faster.

#### Changing a value

- To change the value that's highlighted by the cursor, use the value dial or the [-] [+] buttons.
- If you hold down the [SHIFT] button while performing this operation, the value will change more greatly.
- In case of [-] [+] buttons, If you hold down one button and press the other button, the value will change faster.

#### **Entering numeric values**

When the [NUMERIC] button is on (lit), you can use the [0]-[9] buttons to enter numeric values. Press the [0]–[9] buttons to enter a numerical value, and then press the [ENTER] button.

#### [ENTER] button

Use this button to confirm a value or execute an operation.

#### [EXIT] button

Use this button to exit a screen or to cancel an operation without executing it.

#### [MENU] button

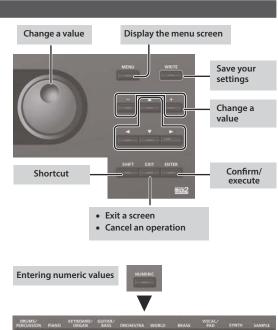
From the menu you can select detailed sound settings (editing), system settings, or utility functions.

# Saving your settings

When you press the [WRITE] button, the WRITE MENU screen appears, allowing you to save a patch (drum kit) or performance.

#### Shortcut

By holding down the [SHIFT] button and pressing another button, you can move to the setting screen for the button you pressed. For details, refer to "Shortcut List" (p. 22).



# Turning On/Off the Power

Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/ off. However, this is normal and does not indicate a malfunction.

#### 1. Turn the power on in the following order: this unit $\rightarrow$ connected devices.

This unit is equipped with a protection circuit. A brief interval (a few seconds) after turning the unit on is required before it will operate normally.

A screen like the following appears.



The explanations in this manual include illustrations that depict what should typically be shown by the display. Note, however, that your unit may incorporate a newer, enhanced version of the system (e.g., includes newer sounds), so what you actually see in the display may not always match what appears in the manual.

#### 2. Turn the [MASTER VOLUME] knob to adjust the volume.

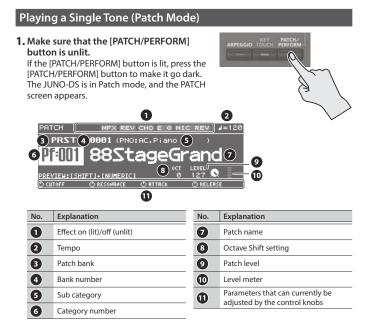


On

Off

#### Turning the Power Off

**1.** Turn the power off in the following order: connected devices  $\rightarrow$  this unit.



#### 2. Press a category button ([DRUMS/PERCUSSION]-[SAMPLE]) to select a category.

DRUMS/ PERCUSSION PIANO	KEYBOARD/ ORGAN	GUITAR/ BASS	ORCHESTRA	WORLD	BRASS	VOCAL/ PAD		SAMPLE
history in the second								
0 1	2	3	4	s	6	7	8	9
Category		Explanation						
DRUMS/PERCUSS	ION	Drum l	kit					
PIANO		Piano						
KEYBOARD/ORGAN		Keyboard, Organ						
GUITAR/BASS		Guitar, Bass						
ORCHESTRA		Orches	Orchestral					
WORLD		Ethnic instruments						
BRASS		Brass, Woodwinds						
VOCAL/PAD		Vocal, Choir, Pads						
SYNTH		Synthesizer						
SAMPLE		Sample (imported audio files)						

Patches are organized into categories which are assigned to buttons. Each category is further divided into several sub-categories.

# 3. Use the value dial to select a patch.

#### ( MEMO )

Patches whose category number is marked with an "S" (e.g., Pf: S01) are specially recommended sounds.

# Selecting a bank

# 1. Move the cursor to bank, and use the value dial to select a bank.

Bank	Explanation	
DS (DS Tone)	These are the particularly recommended patches of the JUNO-DS. The edited result is saved in the user bank.	
PRST (Preset)	These patches cannot be rewritten. The edited result is saved in the user bank.	
GM (GM2)	This bank is for GM2 sounds.	
ЕХР	This bank is for expansion sounds. A wide range of tones from the Axial sound library site can be added to this unit. For details, refer to the Axial site. http://axial.roland.com/	
USER	Patches, drum kits, or samples that you edit are saved in this bank. • User patches can be saved in numbers 501–756. • User drum kits can be saved in numbers R501–R508.	

# Performing Multiple Sounds Together (Performance Mode)

# 1. Press the [PATCH/PERFORM] button to

make it light. The JUNO-DS is in Performance mode, and the PERFORM screen appears.



S

PE

# Dual eGrand 88Stad E

uper Layer	16-part mode
ERFORM MFX1 2 3 REV CHO E Q MIC REV J=120	PERFORM MFX1 2 3 REV CHO E Q MIC REV J=120
PRST 001 Bass / Piano	PRST 001 Bass / Piano
Pf:001 88StageGrand	Part 1 88StageGrand 97
CUTOFF ORESONANCE ORTRCK ORELERSE	OCTHOL — 1 Ocutoff Oresonrice Ortrick Orelerse

# 2. Move the cursor to bank, and use the value dial to select a bank.

Bank	Explanation
PRST (Preset)	These performances cannot be rewritten. The edited result is saved in the user bank.
USER	Performances that you edit are saved in this bank. User performances can be saved in numbers 001–128.

#### 3. Move the cursor to the performance number, and use the value dial to select a performance.

- If you select a performance that is set to split, dual, or super layer, the corresponding button is lit.
- Within Performance mode, the state in which neither split, dual, nor super layer is selected is called "16-part mode"; this allows you to make more detailed settings. For details, refer to "Parameter Guide (English)" (PDF).

When you edit the settings of a patch or performance, an "\*" symbol appears beside the name. If you want to keep the edited settings, perform the Write operation (p. 10) When you save the setting, the "\*" disappears.

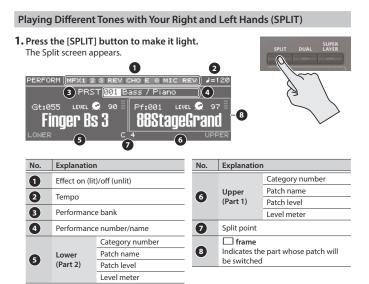
English

田本語

Deutsch

Français

Italiano



Divided by the split point, the right-hand side of the keyboard plays the upper (part 1) patch, and the left-hand side plays the lower (part 2) patch.

## Adjusting the volume

You can use the [UPPER] LEVEL slider and [LOWER] LEVEL slider to adjust the upper (part 1) and lower (part 2) volume (LEVEL). The "LEVEL" values in the screen change accordingly.

#### Exchanging the upper/lower patches

1. Hold down the [SPLIT] button and press the [DUAL] button.

#### Switching patches

- 1. Press pad [1] or pad [2] to select the part whose patch you want to switch. Pad [1] Upper (Part 1)
  - Pad [2] Lower (Part 2)
- 2. Use the value dial to switch patches. You can also select patches by pressing the [DRUMS/PERCUSSION]–[SAMPLE]

buttons.

#### **Changing the Split point**

3)

(6)

No.

0

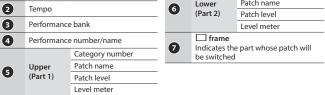
1. Hold down the [SPLIT] button and press the key that you want to be the new split point.

The key you press becomes the split point. The split point key is included in the upper region.

## Playing Two Layered Sounds (DUAL)

1. Press the [DUAL] button to make it light. The Dual screen appears.





The upper (part 1) and lower (part 2) patches sound together.

#### Adjusting the volume

You can use the [UPPER] LEVEL slider and [LOWER] LEVEL slider to adjust the upper (part 1) and lower (part 2) volume (LEVEL). The "LEVEL" values in the screen change accordingly.

## Exchanging the upper/lower patches

1. Hold down the [SPLIT] button and press the [DUAL] button.

#### Switching patches

1. Press pad [1] or pad [2] to select the part whose patch you want to switch.

Pad [1]	Upper (Part 1)	
Pad [2]	Lower (Part 2)	

2. Use the value dial to switch patches.

You can also select patches by pressing the [DRUMS/PERCUSSION]-[SAMPLE] buttons.

# Thickening a Patch (SUPER LAYER)

You can overlay a patch several times, slightly shifting the pitches of each layer. This is called "detuning."

Using the "Super Layer" function, you can easily set the detuning and the number of times you overlay the patch (number of parts), to create more spacious or thicker tones

#### 1. Select a patch.

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e

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( (

#### 2. Press the [SUPER LAYER] button to make it liaht.

The Super Layer screen appears



No.	Explanation	No.	Explanation	
1	Effect on (lit)/off (unlit)	6	Layer Number of layered parts	
2	Tempo	7	Detune Amount of pitch shift	
3	Performance bank	8	Part level	
4	Performance number/name	9	Level meter	
5	Category number/Patch name	0	Parameters that can currently be adjusted by the control knobs	

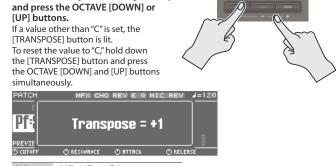
3. Move the cursor to "Layer" or "Detune," and use the value dial to change the setting.

Parameter	Value
Layer	2-5
Detune	0-30

## Adjusting the volume

You can use the [UPPER] LEVEL slider to adjust the volume (LEVEL). The "LEVEL" values in the screen change accordingly.

#### Changing the Key Touch (KEY TOUCH) Using the Control Knobs to Vary the Sound Sets the keyboard's touch. You can use the Control knobs to control the sound in real time. You can control a total of 12 1. Press the [KEY TOUCH] button. parameters, organized as three The KEY TOUCH screen appears groups each containing four parameters TOUCH (SOUND V HASTER EQ VHIC IN SETTIR + 3/ IUM If you select the parameters to be set for each part, the target affected by REAL these modifications will depend on the current settings. 2. Move the cursor to "Velo Curve," and use the value dial to change the Patch mode settina Value Explanation This sets the keyboard to a light touch. You can achieve fortissimo (ff) play with a less forceful touch than MEDIUM setting, so the keyboard feels lighter. This setting makes it easier for children, whose hands have less strength. LIGHT MEDIUM This sets the keyboard to the standard touch. Performance mode This sets the keyboard to a heavy touch. You have to play the keyboard more forcefully than MEDIUM setting in order to play fortissimo (ff), so the keyboard touch feels heavier. This setting allows you to add more expression when Dual, Super Layer All parts HEAVY Split, 16-part mode The currently selected part playing dynamically. For some sounds, the knobs may not have an effect. MEMO 1. Press the [SELECT] button to select the group of parameters. You can also make more detailed adjustments to the keyboard touch, or specify that all notes sound at a fixed volume regardless of your keyboard playing 2 dynamics. For details, refer to system settings "KEY TOUCH" (p. 16). Shifting the Key Range in Semitone Steps (Transpose) 1. Hold down the [TRANSPOSE] button, and press the OCTAVE [DOWN] or [UP] buttons.



Value -5 (G)-0 (C)-+6 (F#)

# Changing the Keyboard's Pitch in One-Octave Steps (Octave Shift)

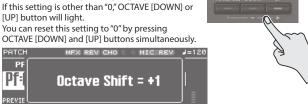
1. Press the OCTAVE [DOWN] or [UP] button. If this setting is other than "0," OCTAVE [DOWN] or [UP] button will light.

EV CHO

Octave Shift = +1

O RTTRC

You can reset this setting to "0" by pressing



#### Value -3-0-+3

What's affected by the Octave Shift setting will depend on the current mode.

MIC

# Patch mode

PI

Pf:

The octave of the selected patch will change. The setting cannot be saved.

#### Performance mode

Dual, Super Layer	The octave of all parts will change.	
Split, 16-part mode	The octave of the currently selected part will change. You can set this independently for each part.	2

You can save the Octave setting of each part by saving the performance.



Drum Kit	Control knobs will apply to each individual key. When you turn one of these knobs, the currently selected key will be indicated (e.g., C4). To change the key to which the effect is to be applied, press a key and specify a new key name.
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Use the control knobs to control the parameters.				
Parameter	Explanation			
CUTOFF	Adjusts the frequency (cutoff frequency) at which the filter begins to be applied.			
RESONANCE	Boosts the sound in the vicinity of the cutoff frequency, adding a distinctive character to the sound.			
ATTACK	Adjusts the time from when you press the key until the sound reaches the maximum level.			
RELEASE	Adjusts the time from when you release the key until the sound is no longer heard.			
MIC REVERB	Adjusts the reverb that's applied to the input sound from the MIC IN jack.			
MFX CTRL	Controls MFX.			
CHORUS/DELAY	Adjusts the amount of chorus or delay.			
REVERB	Adjusts the amount of reverb.			
ASSIGN 1-4	You can assign various parameters to these knobs and control them. For details on how to change the parameters that are assigned to the knobs, refer to "Parameter Guide (English)" (PDF).			

# **Registering Favorite Sounds to a Button (FAVORITE)**

"Favorites" store settings for frequently used patches and performances, allowing you to recall them by simply pressing a button. Favorites store the number of the patch or performance.



- Favorites 0–9 can be registered as a "favorite set"; you can register a total of ten such sets.
- Use the [0] to [9] buttons to register tones or switch to tones.

# NOTE

If you've changed the sound or keyboard settings (split, dual, super layer), you must first save the changed settings before you can register them as a favorite.

#### **Registering a Favorite**

- 1. Select a patch or performance that you want to register.
- 2. Press the [BANK] button to make it light.
- 3. Press a [0]–[9] button to select the bank in which you want to register the favorite.
- 4. Hold down the [FAVORITE] button and press a [0]-[9] buttons to select the number in which the favorite will be registered.

田本語

Deutsch

Français

Italiano

Español

Português

# **Recalling a Favorite**

- 1. Press the [FAVORITE] button to make it light.
- 2. Press the [0]–[9] button to select a favorite.

# Switching Favorite Banks

- 1. Press the [BANK] button to make it light. The button from [0] to [9] that corresponds to the currently selected bank blinks.
- **2.** Press the [0]–[9] button to select a bank.

# Viewing or Removing a Favorite

**1.** Hold down the [SHIFT] button and press the [FAVORITE] button. The FAVORITE UTILITY screen appears.

Fí	AVOR	SITE UTI	LITY		[ENTER]:Remo	ve
Ε	AN	KØ (BANK1	<u>YBANKZYI</u>	ванкз у ван	NK4 V BANK5 V BAN	F 171
		TYPE	BANK	NUM.	NAME	
	0	PATCH	PRST	001:St	ring Ens	Π
		PATCH	PRST	001:St	ring Ens	
		PATCH	PRST		StageGrand	
		PATCH	PRST		StageGrand	
	4	PATCH	PRST	_001:St	ring Ens	

You can perform the following operations in the FAVORITE UTILITY screen.

Controller	Explanation
[◄] [▶] buttons	Switch the favorite bank.
[▲] [▼] buttons	Select a favorite.
[ENTER] button	Removes the selected favorite. When a confirmation screen appears, press the [ENTER] button once again. If you decide not to remove it, press the [EXIT] button.

2. Press the [EXIT] button to exit the FAVORITE UTILITY screen.

# Playing Arpeggios (ARPEGGIO)

- The arpeggiator is a function that automatically produces an arpeggio based on the keys that you press.
- \* The arpeggio settings cannot be saved.

# 1. Press the [ARPEGGIO] button to make it light.

The ARPEGGIO screen appears.	
ARPEGGIO	<b>⊿</b> =120
STYLE <mark>001</mark> Basic 1 (a)	
Arp Hold Grid Duration	0FF 1∠16(♪) 80%
Motif Velocity	UP() REAL

# 2. Play a chord on the keyboard.

An arpeggio consisting of the notes you hold down starts playing.

# MEMO

- If "Arp Hold" is "ON," the arpeggio continues playing even after you release the keyboard.
- If you hold down the [SHIFT] button and press the [ARPEGGIO] button, the ARPEGGIO screen appears with Arp Hold turned on.
- **3.** To turn off this function, press the [ARPEGGIO] button once again to make it go dark.

# Select an Arpeggio Style

- **1. Press the [ARPEGGIO] button to make it light.** The ARPEGGIO screen appears.
- 2. Move the cursor to "STYLE," and use the value dial to select a style.

   Value
   001-128

#### **Editing Arpeggios**

- **1.** Press the [ARPEGGIO] button to make it light. The ARPEGGIO screen appears.
- 2. Move the cursor to the item that you want to edit, and use the value dial to edit the setting.
- 3. Press the [EXIT] button to exit the ARPEGGIO screen.

#### MEMO

For details on the parameters that you can edit in the ARPEGGIO screen, refer to "Parameter Guide (English)" (PDF).

# Performing with Voice from a Mic

You can input a voice from a mic connected to the rear panel MIC IN jack, and perform using a voice.



- To adjust the input volume from the mic, use the rear panel MIC [LEVEL] knob. Adjust the knob so that the sound from the mic is not distorted.
- To adjust the volume balance between the mic sound and your performance, use the top panel [MIC IN] level slider.

#### Using the Vocoder/Auto Pitch

A "vocoder" is an effect that is typically applied to a human voice. By sending a human voice through a vocoder, you can give it an unexpressive robot-like character. The pitch is controlled by playing the keyboard.

"Auto Pitch" sounds suppress pitch irregularity, producing a pitch-corrected sound. By applying a stair-step constraint to pitch change, this creates a mechanical effect.

• The preset bank (PRST) contains 10 vocoder settings and 10 auto-pitch settings.

#### 1. Press the [VOCODER/AUTO PITCH] button to make it

light. The VOCODER/AUTO-PITCH screen appears

OCODER/AUTO-PITCH				
USER 001 Voc:Ensmble				
Vocal Effect Type Vocoder				
Carrier Wr:059 Voc:Ensemble				
Level 60				
Pan Ø				
Mic Sens 80				



- 2. Move the cursor to bank, and use the value dial to select a "PRST" or "USER."
- 3. Move the cursor to the number, and use the value dial to select a vocoder or auto-pitch setting.

	PRST	001-010	Vocoder settings	
		011-020	Auto-pitch settings	
	USER	501-520	User bank	

- 4. While playing the keyboard, vocalize into the microphone. If you've selected an Auto Pitch, there's no need to play the keyboard.
- To turn off this function, press the [VOCODER/AUTO PITCH] button once again to make it go dark.

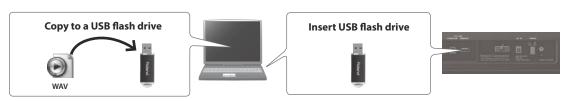
#### MEMO

You can make detailed adjustments to the vocoder or auto-pitch settings. For details, refer to "Parameter Guide (English)" (PDF).

Audio files that you've imported from a USB flash drive into the JUNO-DS (referred to as "samples") can be assigned to the keyboard and played. In Performance mode, you can assign up to 16 audio files (16 parts).

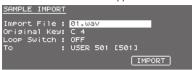
# NOTE

For an audio file to be imported, it must be a WAV format, 44.1 kHz, 16 bit file. If any other file is selected, the display indicates "Incorrect File!" and the file cannot be imported.



# Importing Audio Files (Sample)

- 1. Use the JUNO-DS to format the USB flash drive (p. 17).
- **2.** Power-off the JUNO-DS, and then remove the USB flash drive.
- 3. Using your computer, copy the desired audio files into the "IMPORT" folder.
- \* Use only single-byte alphanumeric characters in the folder names and file names.
- 4. Insert the USB flash drive into the JUNO-DS, and turn on the power.
- 5. Press the [SAMPLE IMPORT] button. The SAMPLE MENU screen appears.
- **6.** Move the cursor to "SAMPLE IMPORT," and press the [ENTER] button. The SAMPLE IMPORT screen appears.



# 7. Make settings to specify how the file is imported.

<u> </u>			
Import File	Imported audio file		
Original Key	Specifies the note number that plays the sample at the pitch at which it was imported.		
Loop Switch	Loop Switch Turns loop playback on/off.		
Save-destination number of the sample.           To:         Sample is saved in the JUNO-DS's internal user memory, and is assigned a number starting with 501.			

#### MEMO

- The sound is automatically assigned to the keyboard with the appropriate pitches, starting from two octaves above the Original Key and extending downward to the lowest note of the keyboard.
- You can change the loop point and original key of the sample later. For details, refer to "Parameter Guide (English)" (PDF).

# 8. Move the cursor to "IMPORT," and press the [ENTER] button.

- The audio file is imported.
- If user memory is full, the screen indicate "Memory Full!" and you can't import the audio file. In this case, you'll need to delete unnecessary samples.

#### 9. Repeat steps 7–8 to import the desired files into the JUNO-DS.

# MEMO

- An imported audio file can be used as a single patch by pressing the [SAMPLE] button.
- If the file size is large, the import may require several minutes.

# NOTE

Never turn off the power while the screen indicates "Processing...."



# Recalling a Sample

#### 1. Press the [SAMPLE] button.

#### 2. Use the value dial to select a patch.

\* The pitch cannot be changed if the pitch is more than two octaves above the specified Original Key.

# **Deleting Imported Samples**

#### 1. Press the [SAMPLE IMPORT] button. The SAMPLE MENU screen appears.

- **2.** Move the cursor to "SAMPLE DELETE," and press the [ENTER] button. The SAMPLE DELETE screen appears.
- 3. Select the sample (patch) that you want to delete.
- **4.** Move the cursor to "DELETE," and press the [ENTER] button. A confirmation message appears. If you decide to cancel, press the [EXIT] button.
- 5. Press the [ENTER] button to delete a sample.

# MEMO

- Some or all notes of performances that use the deleted sample will no longer sound.
- It's a good idea to back up important data to a USB flash drive or to your computer (p. 18).

# **Editing Samples**

- **1. Press the [SAMPLE IMPORT] button.** The SAMPLE MENU screen appears.
- **2.** Move the cursor to "SAMPLE EDIT" and press the [ENTER] button. The SAMPLE EDIT screen appears.
- 3. Move the cursor to tab, and use the [◄] [►] buttons to switch the pages.
- Move the cursor to the parameter that you want to edit, and use the value dial to change the value.

#### MEMO

You can make detailed settings for the sample, such as the sample's loop point and original key. For details, refer to "Parameter Guide (English)" (PDF).

5. To save the edited settings, perform the operation "Saving Your Settings (Write)" (p. 10).

# **Editing Sounds**

# MEMO

For details on the parameters that you can edit, refer to "Parameter Guide (English)" (PDF).

# Editing a Patch/Drum Kit

#### 1. Select a patch or drum kit that you want to edit.

Press the [SAMPLE IMPORT] button and [DAW CONTROL] button simultaneously.

# The EDIT MENU screen appears.

EDIT MENU	[ENTER]
PERFORMANCE EDIT	▶PATCH EDIT
PART EDIT	DRUM KIT EDIT
EFFECTS EDIT	SAMPLE EDIT

3. Move the cursor to "PATCH EDIT" or "DRUM KIT EDIT," and press the [ENTER] button.

The PATCH EDIT or DRUM KIT EDIT screen appears.

- 4. Move the cursor to tab, and use the [◄] [▶] buttons to switch the pages.
- 5. Move the cursor to the parameter that you want to edit, and use the value dial to change the value.
- 6. To save the edited settings, perform the operation "Saving Your Settings (Write)."

#### Editing a Performance

- 1. Press the [PATCH/PERFORM] button to make it light.
- **2.** Select a performance that you want to edit.
- Press the [SAMPLE IMPORT] button and [DAW CONTROL] button simultaneously.
  - The EDIT MENU screen appears.
- 4. Move the cursor to "PERFORMANCE EDIT" or "PART EDIT," and press the [ENTER] button. The PERFORM EDIT or PART EDIT screen appears.
  - THE FERFORM EDIT OF PART EDIT SCIE

# MEMO

"PERFORMANCE EDIT" lets you edit while viewing a list of the settings of all parts, and "PART EDIT" lets you edit each part of the performance individually.

- \* PERFORMANCE EDIT and PART EDIT have the same parameters in common.
- 5. Move the cursor to tab, and use the [◄] [▶] buttons to switch the pages.
- Move the cursor to the parameter that you want to edit, and use the value dial to change the value.
- 7. To save the edited settings, perform the operation "Saving Your Settings (Write)."

#### Editing the Effects

You can make different effect settings independently for Patch mode and Performance mode.

#### Patch mode

You can use multi-effect (MFX), chorus, and reverb for each patch.

#### Performance mode

For each setting, you can use a maximum of three multi-effects (MFX1, MFX2, MFX3), one chorus, and one reverb.

For each of the three MFX, the chorus, and the reverb, you can specify whether it will operate according to the effect settings of the performance, or according to the effect settings of the patch or drum kit assigned to the part you specify.

1. Press the [SAMPLE IMPORT] button and [DAW CONTROL] button simultaneously.

The EDIT MENU screen appears.

- 2. Move the cursor to "EFFECTS EDIT," and press the [ENTER] button. The EFFECTS EDIT screen appears.
- Move the cursor to the parameter that you want to edit, and use the value dial to change the value.
- 4. To save the edited settings, perform the operation "Saving Your Settings (Write)."

#### MEMO

When you edit the effect settings, an "\*" is shown by the patch/performance name. When you save the patch or performance, the "\*" disappears.

#### Saving Your Settings (Write)

If ou turn the power off or select another tone, the changed settings are lost. If you want to keep the changes you made, perform the Write operation.

#### NOTE

WR I

When you save, the data that was previously in the save-destination is overwritten.

#### 1. Press the [WRITE] button to make it light. The WRITE MENU screen appears.

WRITE I	MENU screen appears.	
ITE MEN		CENTER
	PERFORMANCE WRITE	
	PATCH WRITE (Part 01)	

- In Patch mode, you can long-press the [WRITE] button to access the name input screen.
- Depending on the state before you pressed the button, either PATCH WRITE or PERFORMANCE WRITE is automatically selected.

## NOTE

In Performance mode, if an "\*" symbol is shown for both Patch and Performance, first save the patch and then save the performance. Be aware that if you save the performance first, the edited patch data is lost.

# 2. Press the [ENTER] button.



#### 3. Assign a name to the data that you're saving.

Operation	Explanation
[◄] [▶] buttons	Move the cursor.
Value dial, [–] [+] buttons	Select the character.
[▼][A] buttons	Switch between uppercase and lowercase

#### Inserting/ Deleting Characters

1. While entering a name, press the [MENU] button.

The NAME MENU window appears. The window closes if you press the button once again.

2. Move the cursor to "INSERT" or "DELETE," and press the [ENTER] button.

Function	Explanation
INSERT	Press the [ENTER] button to insert a space (blank) at the cursor location.
DELETE	Press the [ENTER] button to delete the character at the cursor location; subsequent characters will be moved forward to fill the gap.

#### 4. When you've specified the name, press the [ENTER] button.

5. Use the value dial to specify the save-destination.

- **6.** Press the [ENTER] button.
- A confirmation message appears

If you decide to cancel, press the [EXIT] button.

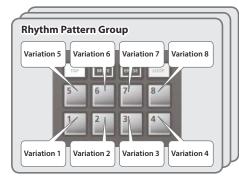
#### 7. Press the [ENTER] button to save the settings.

#### NOTE

Never turn off the power while the screen indicates "Writing...."

A rhythm pattern is a fixed phrase played by rhythm instruments such as drums or percussion. The JUNO-DS can play back rhythm patterns assigned to pads [1]-[8] while you use the keyboard to perform along with the rhythm patterns. A rhythm pattern consists of eight "variations," and the eight variations are collective called a "rhythm pattern group."

When you select a rhythm pattern group, the variations are automatically assigned to pads [1]-[8].



# Selecting and Playing a Rhythm Pattern

1. Press the [RHYTHM PATTERN] button to make it light. The RHYTHM PATTERN screen appears.

<u>RHYTHM PAT</u> Group: <mark>001</mark> Drum Kit: Level :	Pop 1	P Kit 2	<b>J</b> =120
1-e (120)	1-f(120)	1-g (120)	1-h (120)
1-a (120)	1-b (120)	1-c (120)	1-d (120)

# 2. Make settings for the rhythm pattern.

Parameter	Value	Explanation
Group	Selects the rhythm pattern group. Changing the rhythm pattern group will also change the rhythm patterns that are assigned to pads [1]–[8]. * You can move the cursor to this parameter, press the [ENTER] button, and select a rhythm pattern from the RHYTHM PATTERN GROUP LIST screen. * For more about rhythm pattern groups, refer to "Parameter Guide (English)" (PDF).	
	001-030	
Drum Kit	Switching the assigned by t select a differ * You can m	um kit that is used to play the rhythm patterns. e rhythm pattern group will switch the drum kit that is he rhythm pattern group, but you can use this parameter to ent drum kit if you want. ove the cursor to this parameter, press the [ENTER] button, a drum kit from the DRUM KIT LIST screen.
	Dr: 001-	
Laural	Specifies the	volume of the rhythm pattern.
Level 1–127		

# NOTE

The rhythm pattern settings cannot be saved.

#### 3. Press the pad [1]–[8] buttons to play rhythm patterns.

The pattern assigned to the button you pressed plays, and the pad blinks. Press the pad once again to stop (the pad is lit).

# **Other Operations**

Controller	Explanation	
[►/■] button	Plays the variation selected by the pad you pressed. Press this button once again to stop.	
[TAP] button	Specifies the tempo as the interval at which this button is repeatedly pressed.	
[TEMPO] button	Changes the tempo.	
[PHRASE PAD] LEVEL slider	Adjusts the volume of the rhythm pattern.	

# Changing the Tempo

- 1. Press the [TEMPO] button
- The TEMPO screen appears. <u>RHYT</u>HM PATTERN ТЕМРО Group J=120 Drum Leve 1-e (
- 2. Use the value dial to adjust the tempo.
- 3. Press the [EXIT] button to return to the previous screen.

## MEMO

1-a ().

- In the TEMPO screen you can also edit the following parameters.
- Metronome (p. 17) on/off
- Tempo Lock (p. 17) on/off

日本語

SONG LIST folder

SONG1

01.wav 02.wav

03.wav

04.wav

05.wav

06.wav 07.wav 08.wav

SONG2 001.mp3

002.mp3 003.mp3

004.aif 005.aif

Audio files saved on a USB flash drive can be assigned to pads [1]-[8] and played back.

# Audio files that can be played

MP3		
Format MPEG-1 audio layer 3		
Sampling Frequency	44.1 kHz	
Bit Rate	32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 kbps, VBR (Variable Bit Rate)	
WAV/AIFF		
Sampling Frequency	44.1 kHz	
Bit	8, 16, 24-bit	

# NOTE

- Two or more audio files can't be played simultaneously.
- The tempo of an audio file can't be changed.

# Assigning Audio Files to Pads and Playing Them

# MEMO

If there are audio files in the root directory of the USB flash drive when you turn on the power, they will automatically be assigned to the pads.

- 1. Format your USB flash drive on the JUNO-DS (p. 17).
- 2. Power-off the JUNO-DS, and disconnect the USB flash drive.
- 3. Using your computer, create a folder inside the "SONG LIST" folder. \* Use only single-byte alphanumeric characters in folder names.
- 4. Copy the desired audio files into the folder that you created.
- 5. Connect the USB flash drive to the JUNO-DS, and turn on the power.

#### **6.** Press the [AUDIO] button.

The AUDIO PL	AYER screen appears	i.			
AUDIO PLAYE					
Song List : 50NG1					
	PAD3 V PAD4 V PAD5 V PA	D6 V PAD7 V PAD8 V			
Name: 01.wa	av				
LOOP:OFF	Start:00000000	End: 12742828			

#### 7. Make settings for the audio player.

Parameter	Value/Explanation		
Song List         Displays the folders that are in the SONG LIST folder of the USB 1           * Move the cursor to this parameter, and press the [ENTER] but the SONG LIST screen which lists the folders.			
Audio Level	Specifies the volume of the audio files.  The Level setting is lost when you turn off the power. If you want the setting to be remembered even after the power is turned off, specify the desired value in the system setting "Audio Level" (p. 16).		
	0–127		
PAD1-8			
Name Shows the audio files that are assigned to the pads.			
	Turns loop playback on/off.		
Loop	OFF, ON		
Chaut	Specifies the start position for loop playback.		
Start	0–(available position range)		
E . d	Specifies the end position for loop playback.		
End	(available position range)-end		

# NOTE

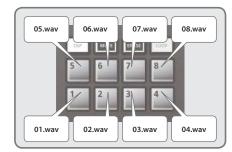
Loop settings can't be made for an MP3 file. If you want to make loop settings, use your computer to convert the file to a WAV or AIFF file before you import it.

#### 8. Press the [ENTER] button.

The audio files in the selected folder are automatically assigned to the pads in descending order. For example if you choose the SONG1 folder, the files are assigned as shown in the illustration.

# MEMO

The files inside the folder are shown in alpha-numeric order, and the first eight files are assigned.



#### 9. Press one of the Pad [1]-[8].

The pad you pressed blinks, and the assigned audio file plays. Press the pad once again to stop playback (the pad is lit).

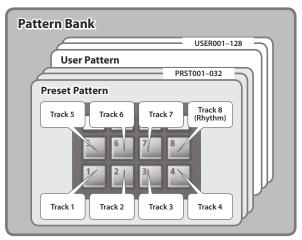
# Audio Player Operations

Action	Operation/Explanation		
Play back	Press one of the Pad [1]-[8].		
Stop	Press a currently-playing pad. To resume playback from the location at which you stopped, hold down the [AUDIO] button and press the same pad.		
Move to the beginning	Hold down the [SHIFT] button and press Pad [1].		
Rewind	Hold down the [SHIFT] button and hold down Pad [2].		
Fast-forward	Hold down the [SHIFT] button and hold down Pad [3].		
Loop settings (*1)	Press the [LOOP] button. Looping is enabled for the currently selected pad. The [LOOP] button lights.		
	Setting the Start point: While the file plays, hold down the [SHIFT] button and press the [LOOP] button.		
	Setting the End point: Once again, hold down the [SHIFT] button and press the [LOOP] button.		
	Start point End point		
Loop a region of the file	Audio file		
	When the End Point is set, playback repeats over the Start-End region that you specified. If a file with a specified loop region is played from the beginning, it will play until the End point and then start looping over the loop region. * If, after specifying the loop region, you want to change the setting so that the entire file loops, hold down the (LOOP) button and press the pad whose setting you want to change.		
Adjusting the Start point or End point (*1)	Move the cursor to "Start" or "End," and use the value dial to change the setting.		
	To switch immediately: Press one of the Pad [1]–[8].		
Playing the next pad	To switch after playback has ended: Hold down the currently-playing pad, and press the pad that you want to play next.		
Adjusting the volume of the Audio Player	Move the [PHRASE PAD] LEVEL slider.		

\*1: Loop settings for each audio file are automatically saved in the SONG LIST folder. If you move an audio file to a different folder, the loop settings will be preserved by moving the settings file (.bin) as well.

The pattern sequencer is a function that lets you record your keyboard performance and knob movements, and then play them back repeatedly. The recorded data is called a "pattern," and you can record and save patterns of up to eight measures.

- A pattern consists of tracks 1–8, and recording occurs on the currently selected track.
- The patterns are organized into 32 preset patterns (PRST) and 128 user patterns (USER), and are saved in a "pattern bank."



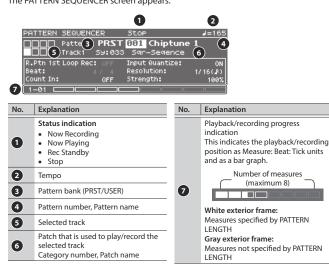
# **Playing Patterns**

# Playing the currently selected pattern

1. With the [PATTERN SEQUENCER] button lit, press the [►/■] button. Press the button once again to stop.

# Selecting and playing a pattern

**1.** Press the [PATTERN SEQUENCER] button to make it light. The PATTERN SEQUENCER screen appears.



- Move the cursor to the pattern bank, and use the value dial to select a "PRST" or "USER."
- 3. Move the cursor to the pattern number, and use the value dial to select the pattern that you want to play.

#### MEMO

You can move the cursor to the pattern number, press the [ENTER] button, and select a pattern from the PATTERN LIST screen that appears.

#### **4.** Press the [►/■] button to play the pattern.

Press the button once again to stop.

# Muting a specific track (Track Mute)

Use this function to mute specific tracks when a pattern is playing.

- **1. Press the [MUTE] button to make it light.** Now the pads are in mute setting mode.
- Press pads [1]-[8] to select the track(s) that you want to mute. You can press multiple pads.

The pad you pressed blinks, and its track is muted. To cancel muting, press the blinking pad.

# 3. Press the [MUTE] button to make it go dark.

The pad mute setting mode is cancelled.

\* Track muting is maintained even after you cancel pad mute setting mode.

# **Basic Operations for the Pattern Sequencer**

Operations for the pattern sequencer are valid only when the [PATTERN SEQUENCER] button is lit.

Controller	Explanation	
[►/∎] button	Plays/stops the pattern.	
[I] button Returns the pattern to the beginning.		
[•] button	Creates a pattern by recording your keyboard performance and controller operations in real time.	
[TAP] button	Sets the tempo to the interval at which you press this button repeatedly.	
[MUTE] button	If this is on, you can use pads [1]–[8] to mute the specified track(s).	
[ERASE] button Erases a recorded pattern or a portion of the pattern.		
[LOOP] button	<ul> <li>If this is on, the pattern loops between the specified measures.</li> <li>If this is off, the pattern plays/records to the specified measure, and then stops.</li> </ul>	
Pads [1]–[8]	[8] Selects tracks. You can use the keyboard to play or record the selected track.	
[PATTERN LENGTH] button	Changes the number of measures in the pattern. You can create a pattern of up to eight measures.	
[TEMPO] button	Changes the tempo.	
[MIXER] button Lets you specify the volume and pan of each track.		

# **Recording Patterns**

**1.** Press the [PATTERN SEQUENCER] button to make it light. The PATTERN SEQUENCER screen appears.

PATTERN	SEQUENC	ER	Stop	<b>⊿</b> =165
			001 Chiptune	1
	Track1	59:033	Sar-Segence	
R.Ptn 1st	LOOP Rec	OFF	Input Quantize:	ON
Beat:			Resolution:	1/16(#)
Count In:		OFF	Strength:	100%
1-01 🗆				

# 2. Select the pattern that you want to record.

#### When making a new recording

If you want to make a new recording but continue using the sound settings that are currently selected for each track, use the PATTERN ERASE function (p. 14) to clear the contents of the pattern before you continue.

If you want to initialize the sound settings as well as the recorded contents, initialize the pattern (p. 15).

#### 3. Press the [•] button.

The [•] button blinks, and the JUNO-DS is in record-ready mode.

Parameter	Value/Explanation		
		v the rhythm pattern will be recorded. e specified only if an empty pattern is selected.	
R. Ptn 1st Loop Rec	OFF	A rhythm pattern will not be recorded.	
nec	ON	Only on the first cycle of recording, the performance of the selected rhythm pattern is recorded on track 8.	
Beat	Specifies the time signature of the pattern.  * This can be specified only if an empty pattern is selected.		
	(1-32) / (2, 4, 8, 16)		
	Selects the w	ay in which recording is started.	
	OFF	Recording begins immediately when you press the [►/■] button.	
Count In	1 MEAS	When you press the [▶/■] button, a count begins from one measure before the recording start location; recording begins when the recording start location is reached.	
	2 MEAS	When you press the [▶/■] button, a count begins from two measures before the recording start location; recording begins when the recording start location is reached.	
	WAIT NOTE	Recording begins when you press the [►/■] button, or when you press a key or press the hold pedal.	

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Parameter	Value/Explanation		
Input Quantize	Specifies whether quantize will be applied during recording.		
	OFF	Quantize is not applied during recording.	
	ON	Quantize while recording.	
Resolution	Specifies the note timing value at which quantization is applied.		
Resolution	1/32 ())–1/4 ())		
	Specifies the degree to which your notes are moved to precise inte the note values specified by the Resolution setting.		
Strength	0–100%	If this is set to "100%," the notes that you record are moved all the way to exact intervals of the specified Resolution. With lower percentages, less correction is applied. If this is set to "0%," the timing is not corrected at all.	

#### 5. Make various settings as necessary.

# To change the number of measures in the pattern

Refer to "Specifying the number of measures in the pattern (PATTERN LENGTH)" (p. 14).

#### When recording a rhythm pattern

If R. Ptn 1st Loop Rec is ON, the rhythm pattern playback is recorded on the first cycle after recording starts.

- **1. Press the [RHYTHM PATTERN] button.** The RHYTHM PATTERN screen appears.
- 2. Select a rhythm pattern group and drum kit.
- Use pads [1]-[8] to select the rhythm pattern.
   When you press a pad, the rhythm pattern plays.
- 4. Press the [EXIT] button to exit the RHYTHM PATTERN screen.

#### Changing the recording tempo

#### 1. Press the [TEMPO] button.

- The TEMPO screen appears.
- 2. Use the value dial to specify a tempo at which you are comfortable recording.

#### 3. Press the [EXIT] button to exit the TEMPO screen.

\* Tempo change data is not recorded.

#### (MEMO)

You can set the tempo by repeatedly pressing the [TAP] button at the desired interval.

# To sound the metronome

# 1. Press the [TEMPO] button.

- The TEMPO screen appears.
- 2. Move the cursor to "Metronome," and use the value dial to set "ON."
- 3. Use the value dial to specify a tempo at which you are comfortable recording.

#### 4. Press the [EXIT] button to exit the TEMPO screen.

#### MEMO

You can turn the metronome on/off by holding down the [SHIFT] button and press the [TEMPO] button.

#### 6. Use pads [1]–[8] to specify the recording track.

The selected	pad	is	lit.	
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Lit other than the recording track:	A track that already contains data
Unlit:	A track that does not contain data

# To change the sound of the recording track

**1. Move the cursor to the category number.** The PATCH LIST screen appears.

# 2. Use the value dial to select a patch.

You can also use the category buttons ([DRUMS/PERCUSSION]-[SAMPLE]) to make a selection.

# **7.** Press the [►/■] button to start recording.

# 8. Play the keyboard.

Movements of the knobs and pitch bend/modulation are also recorded.

# MEMO

• By holding down the [SHIFT] button and pressing the [LOOP] button you can turn LOOP REC on/off.

ON	Continue recording a super offer an ending to the superified as a super log other
OFF	playback.
055	Record to the specified measure length, and then switch from recording to

- ON Continue recording even after recording to the specified measure length.
- If the [LOOP] button is on and R. Ptn 1st Loop Rec is ON, the rhythm pattern is also recorded only for the first cycle. For the second and subsequent cycles, the rhythm pattern stops, and track 8 on which the rhythm pattern was recorded will play.
- Recording adds to the previously recorded data, and layers new data. If you want to re-record, erase the data and record again.

#### 9. Press the [•] button.

You return to pattern playback. If you press the [•] button once again, you return to recording mode.

#### 10. Press the [►/■] button to stop the pattern.

The pattern stops regardless of the recording/playback state.

# Erasing a portion of the track data during recording/playback

#### 1. During recording or playback, press the [ERASE] button.

As long as you continue holding down the button, the performance data of the selected track is erased from the pattern.

#### Erasing an entire pattern or track (PATTERN ERASE)

# 1. Hold down the [SHIFT] button and press the [ERASE] button.

# The PATTERN ERASE screen appears. 2. Select the track that you want to erase, and press the [ENTER] button.

Value	Explanation	
Track 1–8	The data of the specified track is erased.	
SysEx	System exclusive messages are erased.	
ALL	The data of all tracks are erased.	

#### Specifying the number of measures in the pattern (PATTERN LENGTH)

- 1. Press the [PATTERN LENGTH] button.
- The PATTERN LENGTH screen appears.
- 2. Select the number of measures, and press the [ENTER] button.

#### If the number of measures is increased

The screen asks "With Copying?"		
Operation	Explanation	
"YES"	The recorded data is copied repeatedly to increase the number of measures.	
"NO" Only the number of measures is increased; the recorded data is unchanged.		

#### If the number of measures is decreased

The recorded data is unchanged; only the number of measures played back is changed.

# Saving a Pattern

A pattern that you create will be lost if you select a different pattern or if you poweroff the JUNO-DS.

When you've created a pattern that you like, you should save it.

1. While the PATTERN SEQUENCER screen is shown, press the [WRITE] button. The PATTERN NAME screen appears.



2. Enter the pattern name.

#### MEMO

For more about entering a name, refer to "Saving Your Settings (Write)" (p. 10).

- 3. When you've specified the pattern name, press the [ENTER] button.
- The PATTERN WRITE screen appears.

# 4. Use the value dial to select the save-destination.

NOTE

If you save to a number that already contains data, the pattern is overwritten and the previous data is erased.

# 5. Press the [ENTER] button.

A confirmation message appears. If you decide to cancel, press the [EXIT] button.

## 6. Press the [ENTER] button to save the pattern.

Saving is complete when the screen indicates "Completed!"

#### NOTE

Never turn off the power while the screen indicates "Writing...."

# Pattern Utility

- 1. While the PATTERN SEQUENCER screen is shown, press the [MENU] button. The MENU screen appears.
- **2.** Move the cursor to category number, and press the [ENTER] button. The PATTERN UTILITY screen appears.

#### MEMO

While the PATTERN SEQUENCER screen is shown, you can hold down the [SHIFT] button and press the [PATTERN SEQUENCER] button to access the PATTERN UTILITY screen.

3. Move the cursor to the function that you want to execute, and press the [ENTER] button.

#### Copying a Pattern (PATTERN COPY)

Here's how you can copy from a different pattern to the specified track of the currently selected pattern.

# 1. In the PATTERN UTILITY screen, select "PATTERN COPY" and press the [ENTER] button.

The PATTERN COPY screen appears.

# 2. Set the parameters.

Parameter	Value/Explanation		
Pattern bank	Selects the copy-source pattern bank.		
Fattern Dalik	TEMP, PRST, USER		
Pattern number Selects the copy-source pattern.		irce pattern.	
Pattern number	001-032 (PRST), 001	-128 (USER)	
Source Pattern	Selects the copy-source track.		
Track	TRACK ALL, TRACK 1–8		
Destination	Selects the copy-des	stination track.	
Pattern Track	TRACK ALL, TRACK 1–8		
	Selects the content to be copied.		
Copy Target	ALL	The pattern and sound settings are copied.	
copy larger	SOUND ONLY	Only the sound settings sre copied.	
	PATTERN ONLY	Only the pattern is copied.	

# 3. Press the [ENTER] button.

If you decide to cancel, press the [EXIT] button.

#### Initializing a Pattern (PATTERN INIT)

1. In the PATTERN UTILITY screen, select "PATTERN INIT" and press the [ENTER] button.

A confirmation message appears. If you decide to cancel, press the [EXIT] button.

# 2. Press the [ENTER] button to initialize the pattern.

Importing Pattern Data from SMF (SMF IMPORT)

- Imports the specified SMF into the temporary area.
- \* Bank select and program change data is not imported.
- When you import, the current state of the temporary area is discarded.
  The SMF that you want to import must be saved in the IMPORT folder of the USB flash drive.

# SMF data that can be imported:

- Only SMF format 0 is supported.
- Only the tracks (parts) used by the JUNO-DS are imported.
- The first eight measures of SMF data can be imported. Subsequent data is not imported.
- 1. In the PATTERN UTILITY screen, select "SMF IMPORT" and press the [ENTER] button.

The SMF IMPORT screen appears. 2. Select the SMF that you want to import.

# MEMO

In the SMF IMPORT screen, you can press the  $[\blacktriangleright/\bullet]$  button to audition the selected SMF.

# **3.** Press the [ENTER] button.

A confirmation message appears. If you decide to cancel, press the [EXIT] button.

# **4.** Press the [ENTER] button to import the SMF.

#### Exporting a Pattern to SMF (SMF EXPORT)

A pattern in the temporary area can be given a name and exported as SMF data.

- Preset patterns cannot be exported.
- The exported SMF is saved in the "EXPORT" folder of the USB flash drive.
- In the PATTERN UTILITY screen, select "SMF EXPORT" and press the [ENTER] button.

The SMF EXPORT screen appears.

# 2. Enter a file name.

**3.** Press the [ENTER] button. A confirmation message appears. If you decide to cancel, press the [EXIT] button.

4. Press the [ENTER] button to export the pattern.

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# Accessing the Menu Screens

# 1. Press the [MENU] button.

MENU DEDIT PATTERN UTILITY UTILITY	LENTER] SYSTEM FAVORITE UTILITY USER SCALE DEMO PLAY
Menu	Explanation
EDIT	Displays a selection screen for items related to editing sounds. • PERFORMANCE EDIT (p. 10) • PART EDIT (p. 10) • EFFECTS EDIT (p. 10) • PATCH EDIT (p. 10) • DRUM KIT EDIT (p. 10) • SAMPLE EDIT (p. 9) * For details, refer to "Parameter Guide (English)" (PDF).
PATTERN UTILITY	Access the settings screen for patterns (p. 15).
UTILITY	Access the utility menu (p. 17).
SYSTEM	Make settings of the entire JUNO-DS (p. 16).
FAVORITE UTILITY	Access a screen where you can view or delete favorite registrations.
USER SCALE	Create a user scale. * For details, refer to "Parameter Guide (English)" (PDF).
DEMO PLAY	Access a demo song playback screen (p. 18).

\* If a further menu appears, repeat step 2.

3. Move the cursor to tab, and use the [◄] [▶] buttons to switch the pages.

4. Move the cursor to the parameter that you want to edit, and use the value dial to change the value.
_

5. Press the [EXIT] button to exit the screen.

# Making System Settings (SYSTEM)

Settings that are shared by the entire JUNO-DS are called "system settings."

- 1. Press the [MENU] button. The MENU screen appears.
- 2. Move the cursor to "SYSTEM," and press the [ENTER] button.
- 3. Move the cursor to tab, and use the [◄] [►] buttons to switch the pages.
- 4. Move the cursor to the parameter that you want to edit, and use the value dial to change the value.
- 5. Press the [EXIT] button to exit the screen.

#### MEMO

The parameters you edit are saved when you press the [WRITE] button in the SYSTEM screen, or when you exit the SYSTEM screen.

Parameter	Value/Explanation		
GENERAL			
LCD Contrast	Adjusting the Display Contrast 1-20		
LCD Brightness	Adjusting the Display Brightness		
Auto Off	Enabling/Disabling the Auto-Off Function Specifies whether the unit will turn off automatically after a certain time has elapsed. If you don't want the unit to turn off automatically, choose "OFF" setting. OFF, 30, 240 [min]		
Power Save Time	Amount of idle time that is to pass before the JUNO-DS enters power-save mode. When the JUNO-DS enters power-save mode, it will reduce its power consumption by turning off the display backlight and minimizing button illumination.		
Illumination	OFF, 1, 3, 5, 10, 15, 20, 30, 60 [min] Specifies whether the buttons illuminate when they are waiting for an operation. OFF. ON		
PAD COLOR			
Pad Brightness	Adjusts the brightness of pads [1]–[8]. 1–127		
PAD COLOR	The illumination color of pads [1]–[8] can be specified for each function. * For details, refer to "Parameter Guide (English)" (PDF). (OFF), 1–13		
KEY TOUCH			
Velo Curve	Sets the keyboard's touch (p. 7). LIGHT, MEDIUM, HEAVY		

Parameter	Value/Explanation		
rarameter	Value/Explanation Adjusts the Velo Curve.		
Curve Offset	Lower values make the keyboard feel lighter. Higher values make the keyboard feel heavier. -10-+9		
	Specifies the velocity transmitted when a key is played.		
Velocity	REAL         The transmitted velocity value will correspond to the force with which you strike the key.           1 107         The transmitted velocity value will be fixed, regardless of		
	1–127 The transmitted velocity value will be fixed, regardless of the force with which you strike the key.		
SOUND			
	Master Tuning		
Master Tune	Adjusts the overall tuning of the JUNO-DS. The display shows the frequency of the A4 note (center A).		
	415.3–466.2 [Hz] Shifts the JUNO-DS's overall pitch range in semitone steps.		
Master Key Shift	-24-+24		
Master Level	Sets the JUNO-DS's overall volume. 0–127		
Output Gain	Adjusts the output gain from the JUNO-DS's output. -12-+12 [dB]		
Audio Level	Specifies the volume when playing audio file from the Audio Player. 0–127		
MASTER EQ			
Master EQ Switch	Turn the master EQ (this is an equalizer that is applied to the overall sound of the entire JUNO-DS) on/off. OFF, ON		
EQ Low Freq	Frequency of the low range. 200, 400 [Hz]		
EQ Low Gain	Gain of the low frequency range.		
EQ Mid Freq	-15-+15 [dB] Frequency of the middle range.		
``	200–8000 [Hz] Gain of the middle frequency range.		
EQ Mid Gain	-15-+15 [dB]		
EQ Mid Q	Width of the middle frequency range.         Set a higher value for Q to narrow the range to be affected.         0.5, 1.0, 2.0, 4.0, 8.0		
EQ High Freq	Frequency of the high range. 2000, 4000, 8000 [Hz]		
EQ High Gain	Gain of the high frequency range. -15-+15 [dB]		
EQ Total Gain	Gain of the overall Master EQ.		
MIC IN SETTINGS	-15-+15 [dB]		
Mic In Level	Adjusts the input level of the MIC INPUT jack. 0-127		
	Applying Reverb to the Mic Input Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).		
Mic In Reverb Switch	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).		
Switch	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF). OFF, ON		
	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF). OFF, ON		
Switch Mic In Reverb	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF). OFF, ON Adjust the amount of reverb that is applied to the sound of the microphone. 0–127 Select the type of reverb/delay that is applied to the sound of the microphone. ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY		
Switch Mic In Reverb Level Mic In Reverb	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF). OFF, ON Adjust the amount of reverb that is applied to the sound of the microphone. 0–127 Select the type of reverb/delay that is applied to the sound of the microphone. ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY Adjusts the length of the reverberation (when Reverb Type is ROOM1– HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN- DELAY).		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF). OFF, ON Adjust the amount of reverb that is applied to the sound of the microphone. 0–127 Select the type of reverb/delay that is applied to the sound of the microphone. ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY Adjusts the length of the reverberation (when Reverb Type is ROOM1– HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF). OFF, ON Adjust the amount of reverb that is applied to the sound of the microphone. O-127 Select the type of reverb/delay that is applied to the sound of the microphone. ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY Adjusts the length of the reverberation (when Reverb Type is ROOM1– HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN- DELAY). O-127 Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence. OFF, ON		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1–         HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Three Mic Suppressor Characterize	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF). OFF, ON Adjust the amount of reverb that is applied to the sound of the microphone. O-127 Select the type of reverb/delay that is applied to the sound of the microphone. ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY Adjusts the length of the reverberation (when Reverb Type is ROOM1– HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN- DELAY). O-127 Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence. OFF, ON		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1–         HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Threshold Noise Suppressor	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1- HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN- DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Threshold Noise Suppressor Release	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1–         HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the twolume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Threshold Noise Suppressor	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1–         HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.         Sound is input from the mic only when the [VOCODER/ AUTO PITCH] button is lit, or when the effect type (see		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Threshold Noise Suppressor Release	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1–         HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.         Sound is input from the mic only when the [VOCODER/ AUTO PITCH] button is lit, or when the effect type (see		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Threshold Noise Suppressor Release Mic Mode PEDAL	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1–         HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.         Sound is input from the mic only when the [VOCODER/ AUTO PITCH] button is lit, or when the effect type (see		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Threshold Noise Suppressor Release Mic Mode	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1–         HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.         VOCAL FX       Sound is input from the mic only when the [VOCODER/         VOCAL FX       Auron PICH Justice is lit, or when the effect type (see "Parameter Guide (English)" (PDF)) is set to "79: Di VOCODER!         Assigning the Function of the pedal that is connected to the PEDAL       Specifies the function of the pedal that is connected to the PEDAL		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Chreshold Noise Suppressor Release Mic Mode PEDAL Control Pedal	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         0-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1– HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN- DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.         Sound is input from the mic only when the [VOCODER/ AUTO PITCH] button is lit, or when the effect type (see "Parameter Guide (English)" (PDF)) is set to "79: Di VOCODER/ Autor DITCH] button is lit, or when the effect type (see <b>Assigning the Function of the Control Pedal</b>		
Switch  Mic In Reverb Level  Mic In Reverb Type  Mic In Reverb Time  Noise Suppressor Switch  Noise Suppressor Release  Mic Mode  PEDAL  Control Pedal Control Pedal	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         O-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1– HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN- DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts to be applied.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.         Sound is input from the mic only when the [VOCODER/ AUTO PITCH] button is lit, or when the effect type (see "Parameter Guide (English)" (PDF)) is set to "79: DI VOCODER/ AUTO PITCH] button is lit, or when the effect type (see "Parameter Guide (English)" (PDF)).         Specifies the function of the pedal that is connected to the PEDAL CONTROL jack.         * For details, refer to "Parameter Guide (English)" (PDF).         Selects the polarity of the pedal connected to the PEDAL CONTROL jack.		
Switch Mic In Reverb Level Mic In Reverb Type Mic In Reverb Time Noise Suppressor Switch Noise Suppressor Chreshold Noise Suppressor Release PEDAL Control Pedal Polarity Continuous Hold	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         O-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1–         HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN-DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.         Sound is input from the mic at all times.         Sound is input from the mic only when the (VOCODER/AUTO PITCH) button is lit, or when the effect type (see "Parameter Guide (English)" (PDF)) is set to "79: Di VOCODER/AUTO PITCH) button is lit, or when the effect type (see "Parameter Guide (English)" (PDF).         Selecting the function of the pedal that is connected to the PEDAL CONTROL jack.         * For details, refer to "Parameter Guide (English)" (PDF).         Selects the po		
Switch  Mic In Reverb Level  Mic In Reverb Type  Mic In Reverb Time  Noise Suppressor Switch  Noise Suppressor  Noise Suppressor  Release  PEDAL  Control Pedal Polarity	Specifies whether reverb is applied (ON) to the mic input or not applied (OFF).         OFF, ON         Adjust the amount of reverb that is applied to the sound of the microphone.         O-127         Select the type of reverb/delay that is applied to the sound of the microphone.         ROOM1, ROOM2, STAGE1, STAGE2, HALL1, HALL2, DELAY, PAN-DELAY         Adjusts the length of the reverberation (when Reverb Type is ROOM1- HALL2) or the delay time of the delay (when Reverb Type is DELAY or PAN- DELAY).         0-127         Switches the noise suppressor on/off. The noise suppressor is a function that suppresses noise during periods of silence.         OFF, ON         Adjusts the volume at which noise suppression starts to be applied.         0-127         Adjusts the time from when noise suppression starts until the volume reaches 0.         0-127         Specifies the mic input mode.         ALL       Sound is input from the mic at all times.         Sound is input from the mic only when the [VOCODER/ AUTO PITCH] button is lit, or when the effect type (see "Parameter Guide (English)" (PDF)) is set to "79: DI VOCODER/ AUTO PITCH] button is lit, or when the effect type (see "Parameter Guide (English)" (PDF).         Selecting the function of the pedal that is connected to the PEDAL CONTROL jack.         * For details, refer to "Parameter Guide (English)" (PDF).         Selects the polarity of the pedal connected to the PEDAL CONTROL jack.		

Parameter	Value/Explanation		
KNOB			
	Andin	the Function of the Construction	
Knob 1–4 Assign	Assigning the Function of the Control Knobs Specifies the function that is assigned to each knob when the parameter controlled by the control knobs is set to ASSIGN 1–4. * For details, refer to "Parameter Guide (English)" (PDF).		
SYNC/TEMPO	Specifies the operation.	synchronization message that the JUNO-DS will use for	
Sync Mode	MASTER	The JUNO-DS will be the master. Choose this setting when using the JUNO-DS by itself without synchronizing to another device.	
	SLAVE	The JUNO-DS will be the slave. Choose this setting when you want the JUNO-DS to synchronize to MIDI Clock messages received from another MIDI device.	
Clock Source	When the Sync Mode is "SLAVE," this setting specifies whether the JUNO-DS will synchronize to synchronization messages from the MIDI IN connector or from the USB COMPUTER port. MIDI. USB		
Startup Tempo		tempo when the JUNO-DS starts.	
Tempo Lock	When you sw	vitch performances or patterns, this specifies whether the newly selected performance/pattern is used, or the current ntained.	
	OFF, ON (mai	ntain)	
METRONOME			
		v the metronome will be sounded.	
	OFF PLAY-ONLY	No metronome is sounded. The metronome sounds when a pattern is playing.	
Metronome Mode	REC-ONLY	The metronome sounds when a pattern is being recorded.	
	PLAY&REC	The metronome sounds when a pattern is playing or being	
	ALWAYS	recorded. The metronome sounds at all times.	
		netronome volume.	
Metronome Level	0-10		
	Selects the m	netronome sound.	
Metronome	TYPE1	Conventional metronome sound (first beat is a bell)	
Sound	TYPE2	Click sound	
	TYPE3 TYPE4	Beep sound Cowbell sound	
Metronome		nt to the metronome sound.	
Accent Switch	OFF, ON		
MIDI			
Local Switch	Determines whether the internal sound generator is disconnected (OFF) from the controller section (keyboard, pitch bend/modulation lever, buttons, sliders, pedal, and so on); or not disconnected (ON). Normally you'll leave this "ON" Choose the "OFF" setting if you want operations on the JUNO-DS to only control DAW software on your computer.		
Patch Rx/Tx Ch	the keyboard	le, specifies the MIDI message transmit/receive channel for part.	
Performance Control Channel	1–16 Specifies the MIDI receive channel on which MIDI messages (program change/bank select) from an external MIDI device will be received by the JUNO-DS to switch performances. Choose "OFF" setting if you don't want performances to be switched from a connected MIDI device. 1–16, OFF		
Transmit Program Change, Bank Select, Active Sensing	Specifies whether program change messages/bank select messages/active sensing messages will be transmitted (ON) or not be transmitted (OFF).		
Active Sensing	OFF, ON Specifies whe	ether changes you make in the settings of a patch or	
Transmit Edit Data	Specifies whether changes you make in the settings of a patch or performance will be transmitted as system exclusive messages (ON), or will not be transmitted (OFF).		
Receive Program Change,	OFF, ON Specifies whether program change messages/bank select messages will be received (ON) or not be received (OFF).		
Bank Select	OFF, ON		
Soft Through		incoming MIDI messages from the MIDI IN connector will be d without change from the MIDI OUT connector.	
	Sets the USB	driver. g will take effect when you turn the power off, then on again.	
USB Driver	GENERIC	Choose this if you want to use the generic USB driver provided by your computer's operating system.	
CONTROL	VENDOR	Choose this if you want to use a USB driver downloaded from the Roland website. (*1)	
CONTROL			
	* For details	, refer to "Parameter Guide (English)" (PDE)	
INFORMATION	* For details	, refer to "Parameter Guide (English)" (PDF).	
INFORMATION Version		, refer to "Parameter Guide (English)" (PDF). ware version.	
	View the soft		

\*1: Download the Driver

In order to use the JUNO-DS with the "VENDOR" setting, you must download the driver from the following URL and install it on your computer. For details on installation, refer to the following URL.

http://www.roland.com/support/

# **Convenient Functions (UTILITY)**

These functions let you back up the JUNO-DS's internal data to a USB flash drive, or to restore data from a USB flash drive into the JUNO-DS. Other utility functions let you return the JUNO-DS to its factory-set state, or initialize a USB flash drive.

# 1. Press the [MENU] button.

The MENU screen appears.

#### **2.** Move the cursor to "UTILITY," and press the [ENTER] button. The UTILITY screen appears.

UTILITY	[ENTER]
▶ BACKUP	FACTORY RESET
RESTORE	FORMAT USB MEMORY
RESTORE (JUNO-Di)	

Menu	Explanation
BACKUP	Backs up user data to the USB flash drive. System and user setting (.SVD) and pattern (.BIN) files are created.
RESTORE	Restores data from the USB flash drive.
RESTORE (JUNO-Di)	Loads JUNO-Di's system settings and user data back into the unit.
FACTORY RESET	Returns the JUNO-DS to the factory-set condition.
FORMAT USB MEMORY	Initializes a USB flash drive.

3. Move the cursor to the item that you want to execute, and press the [ENTER] button.

# Initializing USB Flash Drive (FORMAT USB MEMORY)

## NOTE

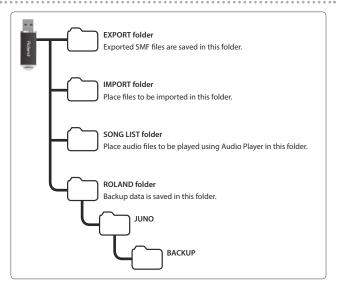
- If the USB Flash drive contains important data that you've created, be aware that all of this data will be lost when you execute this operation.
- Never turn off the power or remove the USB flash drives while the screen indicates "Processing..."
- 1. In the UTILITY screen, move the cursor to "FORMAT USB MEMORY," and press the [ENTER] button.

A confirmation message appears.

If you decide to cancel, press the [EXIT] button.

2. Move the cursor to "OK," and press the [ENTER] button. When formatting is completed, the display indicates "Format Completed!"

# The folder structure of a USB flash drive



日本語

Nederlands

#### Saving JUNO-DS's Data to USB Flash Drive (BACKUP)

Here's how to backup user data to USB flash drive.

#### Types of data that can be saved

User data for patches and performances	User patterns
Favorites	System settings
User data for vocoder/auto pitch	User scale
Samples	DAW CONTROL

#### NOTE

Never turn off the power or remove the USB flash drives while the screen indicates "Processing...

1. In the UTILITY screen, move the cursor to "BACKUP," and press the [ENTER] button.

The BACKUP NAME screen appears.



#### 2. Enter the file name

# MEMO

For more about entering a name, refer to "Saving Your Settings (Write)" (p. 10).

3. When you've specified the file name, press the [ENTER] button. A confirmation message appears. If you decide to cancel, press the [EXIT] button.

4. Move the cursor to "OK," and press the [ENTER] button. When backup is completed, the display indicates "Backup Completed!"

#### Restoring Saved Data from USB Flash Drive Back into the JUNO-DS (RESTORE)

Here's how to restore backed-up user data from USB flash drive into the JUNO-DS (Restore).

#### NOTE

- When you execute the restore operation, all user data is rewritten. If the JUNO-DS contains important data, back it up on a USB flash drive using a different name before you execute the restore operation.
- Never turn off the power or remove the USB flash drives while the screen indicates "Processing....
- 1. In the UTILITY screen, move the cursor to "RESTORE," and press the [ENTER] button.

The RESTORE screen appears.

[ENTER] RESTORE Please select a file.



#### 2. Move the cursor to the file that you want to restore.

## Deleting or renaming a file

1. In the RESTORE screen, press the [MENU] button.

The FILE UTILITY window appears. The window closes if you press the button once again

# 2. Move the cursor to "DELETE" or "RENAME," and press the [ENTER] button.

Function	Explanation
DELETE	When you press the [ENTER] button, the message "Are you sure?" appears. Move the cursor to "OK" and press the [ENTER] button. The selected file is deleted.
RENAME	When you press the [ENTER] button, the RENAME screen appears, allowing you to rename the selected file.

3. Press the [ENTER] button.

A confirmation message appears.

If you decide to cancel, press the [EXIT] button.

4. Move the cursor to "OK," and press the [ENTER] button.

When restore is completed, the display indicates "Completed. Please Shut down."

5. Turn the power of the JUNO-DS off, then on again.

#### Loading JUNO-Di Backup Data into the Unit (RESTORE (JUNO-Di))

JUNO-Di user data that was backed up to a USB flash drive can be loaded back into the JUNO-DS

# NOTE

- When you execute the restore operation, all user data is rewritten. If the JUNO-DS contains important data, back it up on a USB flash drive using a different name before you execute the restore operation.
- Never turn off the power or remove the USB flash drive while the screen indicates "Processing....

#### 1. In the UTILITY screen, move the cursor to "RESTORE (JUNO-Di)," and press the [ENTER] button. The RESTORE screen appears.

2. Move the cursor to the file that you want to restore, and press the [ENTER] button.

A confirmation message appears.

- If you decide to cancel, press the [EXIT] button.
- 3. Move the cursor to "OK," and press the [ENTER] button. When restore is completed, the display indicates "Completed. Please Shut down."

#### 4. Turn the power of the JUNO-DS off, then on again.

#### Returning to the Factory Settings (FACTORY RESET)

You can return all of the JUNO-DS's user settings to the state when the instrument was shipped from the factory (Factory Reset).

#### NOTE

- If the JUNO-DS's internal memory contains important data that you've created. be aware that all of this user data will be lost when you execute the factory reset operation. If you want to keep this data, save it to USB flash drive before you continue.
- Never turn off the power or remove the USB flash drive while the screen indicates "Processing...
- 1. In the UTILITY screen, move the cursor to "FACTORY RESET," and press the [ENTER] button.

A confirmation message appears If you decide to cancel, press the [EXIT] button.

- 2. Move the cursor to "OK," and press the [ENTER] button. When factory reset is completed, the display indicates "Completed. Please Shut down."
- 3. Turn the power of the JUNO-DS off, then on again.

# Playing the Demo Songs

1. Press the [MENU] button. The MENU screen appears.

- 2. Move the cursor to "DEMO PLAY," and press the [ENTER] button. The DEMO MENU screen appears.
- 3. Use the [◄] [▶] buttons to select a demo song, and press the [ENTER] button.

Demo song playback starts.

No data for the music that is played will be output from MIDI OUT connector and USB COMPUTER port.

# Troubleshooting

If the JUNO-DS does not function in the way you expect, first check the following points. If this does not resolve the problem, consult your dealer or a nearby Roland service center.

Problem	Cause/Action	Page	
	Make sure that the JUNO-DS's AC adaptor is correctly connected to an AC outlet and to the rear panel power connector, and that the adaptor itself and AC power cord are connected correctly.	p. 3	
The power does not turn on	If you connect the AC adaptor and turn on the power when batteries are installed, the AC adaptor will be used preferentially. Even if batteries are installed power will not turn on unless the AC adaptor is connected to an AC outlet. If you're using batteries, disconnect the AC adaptor from the JUNO-DS. If batteries are installed, connecting or disconnecting the power cord from the or connecting or disconnecting the DC plug of the AC adaptor while the JUNO-DS is turned on will cause the power to turn off.		
	Is the power for connected amps and speakers turned on?		
	Could you have lowered the volume of your connected equipment?		
	Is the [MASTER VOLUME] knob turned all the way down?	p. 5	
	Have connections been made correctly?	p. 3	
	Can you hear sound through headphones? If there is sound in the headphones, it is possible that the connection cables are broken, or that your amp/mixer has malfunctioned. Check your cables a mixer system once again.	nd amp	
	If you do not hear sound when you play the keyboard, check whether the Local Switch is turned OFF. Make sure that the Local Switch setting is turned on.	p. 17	
There is no sound	Could the level of the tone (patch) be too low? Check the level setting.		
There is no sound	Could the level setting be too low? In the "SOUND" system settings, check the "Master Level" setting.	p. 16	
	Could the keyboard switch be off? Turn the keyboard switch on. For details, refer to "Parameter Guide (English)" (PDF).		
	Could a part be muted? Turn mute off. For details, refer to "Parameter Guide (English)" (PDF).		
	Are the Effect settings correct? Check the Effect settings ON or OFF.		
	Could the volume have been lowered by a MIDI message (volume message or expression message) received from the computer or by operating the pedal?		
	Could the patch's tones be turned off? Turn the Tone Switch "ON." For details, refer to "Parameter Guide (English)" (PDF).		
A specific Part does not sound	Has the volume level of the part been lowered? Check the level of each part.		
	Could the [LEVEL] sliders be lowered?	p. 2	
/hen I play the keyboard, notes do ot stop	Is the pedal polarity reversed? In the "PEDAL" system settings, check the "Control Pedal Polarity" or "Hold Pedal Polarity" setting.	p. 16	
	Check the MIC [LEVEL] knob of the rear panel and [MIC IN] LEVEL slider.	p. 8	
licrophone sound is not output	Could the Mic In level be 0? In the "MIC IN SETTINGS" system settings, check the "Mic In Level" setting.	p. 16	
	Could you be using a condenser microphone? The JUNO-DS does not support condenser microphones.		

# Error Messages

If an incorrect operation is performed, or if processing could not be performed as you specified, an error message appears. Refer to the explanation for the error message that appears, and take the appropriate action.

Message	Meaning	Action	Page	allan
Battery Low!	The battery has run down.	Replace the batteries, or use an AC adaptor.	p. 3	ē
Incorrect File!	This is a file that the JUNO-DS is unable to play/import.         Do not use this file.			
MIDI Buffer Full!	An unusually large amount of MIDI data was received, and could not be processed.	ot Reduce the amount of MIDI messages that are being transmitted.		
MIDI Offline!	The MIDI IN connection was broken.	Check that there is no problem with the MIDI cable connected to the JUNO-DS and that the MIDI cable was not disconnected.	S's MIDI IN,	$\square$
No More Favorites!	No more favorites have been registered.	Check the currently selected favorite number and the direction ("FAV-UP" or "FA that's assigned to the pedal.	AV-DOWN")	
Not Found!	The file was not found on the USB flash drive.	Make sure that the file exists on the USB flash drive.		П
Now Playing!	Since the JUNO-DS is playing, this operation cannot be executed.	Stop playback before you execute the operation.		Espano
Now Recording!	Since the JUNO-DS is recording, this operation cannot be executed.	Stop recording before you execute the operation.		an
Pattern Full!	The maximum number of notes that can be recorded in one pattern has been exceeded; the pattern cannot be recorded any further.			ē
	This indication may appear if a large amount of data, such as movements of the Control knobs, is being recorded. No further pattern recording is possible.	Delete unneeded data from the pattern that you're recording.	p. 14	
	Failed to load data from USB flash drive.	Make sure that USB flash drive is correctly connected.		
Read Error!	It may be that the file is damaged.	Do not use this file.		
	This file cannot be loaded since its format is incorrect.			
Rec Overflow!	Since a large amount of recorded data was input all at once, it could not be processed correctly.	Reduce the amount of recorded data.	p. 14	Port
Sys Mem Damaged!	It is possible that the contents of system memory have been damaged.	Please execute a Factory Reset. If this does not resolve the problem, contact your dealer or a nearby Roland service center.	p. 18	Portugue
USB Mem NotReady!	USB flash drive is not connected.	Connect USB flash drive.		Ň
Memory Full!	Import is not possible because user memory is full.	Delete unneeded samples (patches).	p. 9	
Write Error!	Failed to write data to USB flash drive.	Make sure that USB flash drive is correctly connected.		$\subseteq$
	Data cannot be written because the USB flash drive has no more free space.	Delete unneeded files from the USB flash drive. Alternatively, use a different USB flash drive device, one that has more free space available.		
	The file or the USB flash drive itself is write protected.	Make sure that the file or the USB flash drive is not write protected.		

English

# **WARNING**

# Concerning the Auto Off function

The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function). If you do not want the power to be turned off automatically, disengage the Auto Off function (p. 16).

#### Use only the stand that is recommended

This unit should be used only with a stand that is recommended by Roland.

## Do not place in a location that is unstable

When using the unit with a stand recommended by Roland, the stand must be carefully placed so it is level and sure to remain stable. If not using a stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.

# Precautions regarding placement of this unit on a stand

Be sure to follow the instructions in the "Parameter Guide (English)" (PDF) carefully when placing this unit on a stand.

If it is not set up properly, you risk creating an unstable situation which could lead to the unit falling or the stand toppling, and may result in injury.

# 🕂 WARNING

#### Use only the supplied AC adaptor and the correct voltage

Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

#### Use only the supplied power cord

Use only the attached power cord. Also, the supplied power cord must not be used with any other device.



# Use only the specified stand(s)

This unit is designed to be used in combination with specific stands (\*1) manufactured by Roland. If used in combination with other stands, you risk sustaining injuries as the result of this product dropping down or toppling over due to a lack of stability.

#### Evaluate safety issues before using stands

Even if you observe the cautions given in the owner's manual, certain types of handling may allow this product to fall from the stand, or cause the stand to overturn. Please be mindful of any safety issues before using this product.

## Handle the ground terminal carefully

If you remove the screw from the ground terminal, be sure to replace it; don't leave it lying around where it could accidently be swallowed by small children. When refastening the screw, make that it is firmly fastened, so it won't come loose it won't come loose.

#### Take care not to get burned

Batteries may reach a high temperature; please be careful to avoid burning yourself.

\*1: (61-key model) KS-18Z/KS-12, (76-key model) KS-18Z/KS-12, (88-key model) KS-18Z/KS-12/KS-G8B

# **IMPORTANT NOTES**

#### Power Supply: Use of Batteries

- If the batteries run extremely low, the sound may distort, but this does not indicate a malfunction. If this occurs, please replace the batteries or use the included AC adaptor.
- If operating this unit on batteries, please use rechargeable Ni-MH batteries.
- If operating this unit on batteries, please disconnect the AC adaptor from this unit.
- Even if batteries are installed, the unit will turn off if you connect or disconnect the power cord from the AC outlet while the unit is turned on, or if you connect or disconnect the AC adaptor from the unit. When this occurs, unsaved data may be lost. You must turn off the power before you connect or disconnect the power cord or AC adaptor.

#### Placement

- Do not allow objects to remain on top of the keyboard. This can be the cause of malfunction, such as keys ceasing to produce sound.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.

## Care of the Keyboard

- Do not write on the keyboard with any pen or other implement, and do not stamp or place any marking on the instrument. Ink will seep into the surface lines and become unremovable.
  Do not affix stickers on the keyboard. You may be unable to
- remove stickers that use strong adhesives, and the adhesive may cause discoloration.
- To remove stubborn dirt, use a commercially available keyboard cleaner that does not contain abrasives. Start by wiping lightly. If the dirt does not come off, wipe using gradually increasing amounts of pressure while taking care not to scratch the keys.

#### **Repairs and Data**

 Before sending the unit away for repairs, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information. Although we will do our utmost to preserve the data stored in your unit when we carry out repairs, in some cases, such as when the memory section is physically damaged, restoration of the stored content may be impossible. Roland assumes no liability concerning the restoration of any stored content that has been lost. restoration of any stored content that has been lost.

#### Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.
- Never strike or apply strong pressure to the display.
- The sound of keys being struck and vibrations produced by plaving an instrument can be transmitted through a floor of wall to an unexpected extent. Please take care not to cause annoyance to others nearby.
- Use only the specified expression pedal (EV-5; sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.
- Continuous playing may cause dis-coloration of the pad, but this will not affect the pad's function.
- Do not use connection cables that contain a built-in resistor.

#### Using External Memories

- Please observe the following precautions when handling external memory devices. Also, make sure to carefully observe all the precautions that were supplied with the external memory devices. memory device.
- Do not remove the device while reading/writing is in progress.
- To prevent damage from static electricity, discharge all static electricity from your person before handling the device.

#### **Ground Terminal**

 Depending on the circumstances of a particular setup, you Depending on the circumstances of a particular setup, you may experience a discomforting sensation, or perceive that the surface feels gritty to the touch when you touch this device, microphones connected to it, or the metal portions of other objects. This is due to an infinitesimal electrical charge, which is absolutely harmless. However, if you are concerned about this, connect the ground terminal (p. 3) with an external ground. When the unit is grounded, a slight hum may occur, depending on the particulars of your installation. If you are unsure of the connection method, contact the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information."

# Unsuitable places for connection • Water pipes (may result in shock or electrocution)

- Gas pipes (may result in fire or explosion)
- Telephone-line ground or lightning rod (may be dangerous in the event of lightning)

#### Intellectual Property Right

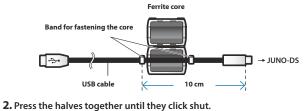
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- The copyright of content in this product (the sound waveform data, style data, accompaniment patterns, phrase data, audio loops and image data) is reserved by Roland Corporation.
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# Attaching the Ferrite Core (76-key model only)

If you use a USB cable to connect the JUNO-DS to your computer, you must attach the included ferrite core. This is for the purpose of preventing electromagnetic interference; do not remove it.

**1.** Attach the ferrite core to the USB cable.





- \* Be careful not to pinch your fingers when attaching the ferrite core.
- \* Do not damage the cable by pinching it excessively with the ferrite core.

Deutsch

日本語

# Shortcut List

Shortcut	Explanation
MODE	
[SAMPLE IMPORT] + [DAW CONTROL]	Displays the EDIT MENU screen.
Common section	
[SHIFT] + [SELECT]	All three SELECT indicators (<) that indicate the control knob function will light, allowing you to use the four control knobs to adjust the volume of each part. Perform the same operation once again to return to the previous knob function.
[SHIFT] + [VOCODER/AUTO PITCH]	Displays the MIC IN SETTINGS screen. There you can specify the effect applied to the mic.
[SHIFT] + [-] [+]	Makes the value change in larger steps.
[SHIFT] + [▶] [SHIFT] + [◀]	Moves between tabs in setting screens such as system or edit.
[SHIFT] + [NUMERIC]	Previews the sound of the currently selected part.
[SHIFT] + [FAVORITE]	Displays the FAVORITE UTILITY screen. (Check/Delete Favorite)
[SHIFT] + [0]	Displays the PATCH EDIT screen. When a drum kit is selected, displays the DRUM KIT EDIT screen.
[SHIFT] + [1]	In Performance mode, this allows you to make MFX settings for the currently selected part. (Effect Edit)
[SHIFT] + [2]	Allows you to make chorus settings. (Effect Edit)
[SHIFT] + [3]	Allows you to make reverb settings. (Effect Edit)
[SHIFT] + [9] ([SAMPLE])	Displays the SAMPLE EDIT screen.
[SHIFT] + [EXIT]	Turns off the display backlight.
[SHIFT] + [ENTER]	Turns on the display backlight.
KEYBOARD	
[SPLIT] + keyboard	Specifies the split point (if Split is on).
[SPLIT] + [DUAL]	In split/dual, exchanges the upper (part 1) and lower (part 2) patches.
[SHIFT] + [ARPEGGIO]	Displays the Arp Hold (OFF, ON) and ARPEGGIO screen. If the Arpeggio Switch is Off, the Arpeggio Switch is turned On.
[SHIFT] + [KEY TOUCH]	Fixes the key touch.
[KEY TOUCH] + [TRANSPOSE]	Displays the USER SCALE screen.
[SHIFT] + [PATCH/PERFORM]	Adjusts the volume of each part. (Part Edit)
PHRASE PAD (Audio Player)	
[SHIFT] + Pad [1]	Move to the beginning the audio file selected by the pad.
[SHIFT] + Pad [2]	Rewinds the audio file selected by the pad.
[SHIFT] + Pad [3]	Fast-forwards the audio file selected by the pad.
[SHIFT] + [LOOP]	Specifies the loop point (Start and End) of the currently-playing audio file.
PHRASE PAD (Pattern Sequencer)	
[SHIFT] + [LOOP]	During pattern recording, when recording has reached the specified length of measures, this setting specifies whether to change from recording to playback (LOOP REC OFF) or to continue recording (LOOP REC ON).
[SHIFT] + [ERASE]	Displays the PATTERN ERASE screen.
[SHIFT] + [PATTERN SEQUENCER]	Displays the PATTERN UTILITY MENU screen.
[SHIFT] + [TEMPO]	Turns the metronome on/off.
[MUTE] + [ERASE]	Erases data other than notes using the realtime erase function of the pattern sequencer.

# Main Specifications

# Roland JUNO-DS: Synthesizer Keyboard (Conforms to General MIDI 2 System)

	61-key model	76-key model	88-key model
Keyboard	61 keys (with velocity)	76 keys (with velocity)	88 keys (Ivory Feel-G Keyboard with Escapement)
Power Supply	DC 9 V: AC adaptor or Ni-MH AA size rechargeable battery (AA, HR6) (sold separately) x 8		
Current draw	<ul> <li>Battery life for continuous use (differs depending on the conditions of use) Rechargeable nickel metal hydride batteries: approximately 5 hours (When using batteries having a capacity of 1,900 mAh.) (approximately 4 hours if USB flash drive is connected)</li> <li>* Carbon-zinc or alkaline batteries cannot be used</li> </ul>		
Dimensions	1,008 (W) x 300 (D) x 97 (H) mm 39-11/16 (W) x 11-13/16 (D) x 3-7/8 (H) inches	1,231 (W) x 311 (D) x 102 (H) mm 48-1/2 (W) x 12-1/4 (D) x 4-1/16 (H) inches	1,415 (W) x 341 x (D) x 144 (H) mm 55-3/4 (W) x 13-7/16 (D) x 5-11/16 (H) inches
Weight	5.3 kg / 11 lbs 12 oz	6.9 kg / 15 lbs 4 oz	16.2 kg / 35 lbs 12 oz
Accessories	Owner's manual, Leaflet "USING THE UNIT SAFELY," AC adaptor, Power cord	Owner's manual, Leaflet "USING THE UNIT SAFELY," AC adaptor, Power cord, Ferrite core (including Band for fastening the core)	Owner's manual, Leaflet "USING THE UNIT SAFELY," AC adaptor, Power cord
Options (sold separately)	Keyboard stand (*1): KS-18Z, KS-12		Keyboard stand (*1): KS-18Z, KS-12, KS-G8B
	Pedal switch: DP series     *1:     When using the KS-18Z, ensure that the height of the unit is one meter or lower.       Expression pedal: EV-5     *1:     When using the KS-18Z, ensure that the height of the unit is one meter or lower.		

\* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

# MEMO

For details on how to place this unit on a stand, refer to "Placing This Unit on a Stand" in "Parameter Guide (English)" (PDF).